

**PATENT APPLICATION  
ATTY. DOCKET NO. 3419-011158**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :  
**William R. RYAN** : **RECUPERATOR FOR USE WITH**  
Serial No. not yet assigned : **TURBINE/TURBO -ALTERNATOR**  
Filed concurrently herewith :

Pittsburgh, Pennsylvania  
August 22, 2001

**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to the calculation of the fee due, please amend the above-identified patent application as follows.

**IN THE SPECIFICATION:**

On page 1, after the title insert:

--Cross-Reference to Related Applications

The present application is a divisional of U.S. Patent Application Serial No. 09/571,195 filed May 16, 2000 entitled "Recuperator for Use With Turbine/Turbo-Alternator" herein incorporated by reference in its entirety.--

On page 19, at line 3, please add the following new paragraph:

--As can be seen in Fig. 20, slot 136 is defined by a lip 402.--

**IN THE CLAIMS:**

Please cancel claims 1-27, 32-40, 45 and 46.

Please insert new claim 48:

--48. A method for forming a joint, comprising the steps of:

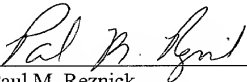
- a) providing a first metallic member having a first thickness and a first lip;
- b) providing a second metallic member having a second lip, said second metallic member having a thickness, the second thickness is greater than the first thickness;
- c) placing said first lip within said second lip so that a tip of the first lip extends beyond the second lip;
- d) heating the tip until the tip melts;
- e) heating the second metallic member adjacent the tip so that the melted tip causes the first metallic member to weld to the second metallic member about first lip; and
- f) permitting the first metallic member and the second metallic member to cool, thereby forming a welded joint about the first lip.--

**REMARKS**

Claims 28-31, 41-44 and 47-48 are now pending. It is believed these claims are patentable over the prior art of record. New claim 48 and the Amendment to the specification is supported by the specification and Figs. 20 and 21.

Respectfully submitted,

WEBB ZIESENHEIM LOGSDON  
ORKIN & HANSON, P.C.

By 

Paul M. Reznick  
Registration No. 33,059  
Attorney for Applicant  
700 Koppers Building  
436 Seventh Avenue  
Pittsburgh, PA 15219-1818  
Telephone: (412) 471-8815  
Facsimile: (412) 471-4094